



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,984	10/13/2004	Masaaki Yamauchi	2004_1444A	2248
	7590 06/05/2007	р	EXAMINER	
WENDEROTH, LIND & PONACK L.L.P. 2033 K. STREET, NW			HINES, ANNE M	
SUITE 800 WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
	,		2879	
			MAIL DATE	DELIVERY MODE
			06/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<u> </u>	Application No.	Applicant(s)				
	10/510,984	YAMAUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Anne M. Hines	2879				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DO  - Extensions of time may be available under the provisions of 37 CFR 1.11 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period versions to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 24 A	<u>oril 2007</u> .					
,						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•	•				
4) Claim(s) 1-8 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3-5</u> is/are rejected.						
7)⊠ Claim(s) <u>2 and 6-8</u> is/are objected to.		•				
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>13 August 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	•					
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ Ail b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).				
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		•				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> </ul>	Paper No(s)/Mail D 5) Notice of Informal I					
Paper No(s)/Mail Date 10/17/06.	6) Other:					

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#### **DETAILED ACTION**

# Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 24, 2007 has been entered.

Claims 1-8 are pending in the instant application.

# Claim Objections

Claims 5, 7 and 8 are objected to because of the following informalities:

In claim 7, the phrase "in a period when the scan electrode has a voltage level that is higher than that of the sustain electrode" is unclear. In claim 4, from which claim 7 depends, it is required that an alternating voltage is applied between the scan and sustain electrodes. The Examiner understands a 'period' in the context of an alternating voltage to describe the time required for the voltage to cycle from high to low and back again as in a sine wave. It appears to the Examiner that claim 7 is referring to the portion of the alternating voltage period when the scan electrode has a higher level than the sustain electrode. Appropriate correction is required.

In claims 5 and 8, the phrase "in a period when the sustain electrode has a voltage level that is higher than that of the scan electrode" is unclear. In claim 4, from

which claims 5 and 8 depend, it is required that an alternating voltage is applied between the scan and sustain electrodes. The Examiner understands a 'period' in the context of an alternating voltage to describe the time required for the voltage to cycle from high to low and back again as in a sine wave. It appears to the Examiner that claims 5 and 8 are referring to the portion of the alternating voltage period when the sustain electrode has a higher level than the scan electrode. Appropriate correction is required.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto et al. (US 2002/0008680) in view of Kado et al. (US 6666738) and Hirano et al. (US 2003/0030377).

Regarding claims 1 and 3, Hashimoto teaches a plasma display panel containing a scan electrode, sustain electrode, and a data electrode (Fig. 32, 104c & 105c & 108c; Page 1, Paragraphs [0005]-[0006]), and waveforms for driving the plasma display panel (Figs. 11a-11c; Page 13, Paragraphs [0185]-[0186]). Hashimoto fails to teach the method of manufacturing the plasma display panel. However, Kado teaches that during a plasma display panel manufacturing process a PDP must be aged in order to stabilize

the luminescence and discharge characteristics of the display (Column 2, lines 16-20). Further, Hirano teaches that PDPs are aged by driving the PDP under practical conditions of use of the PDP (Page 1, Paragraph [0008]). Therefore, it would have been obvious to one of ordinary skill in the art to use the driving waveforms Hashimoto teaches for driving the PDP under practical use to age its PDP in order to stabilize the luminescence and discharge characteristics of the display. Therefore, using the driving waveform of Figs. 11a-c to age the plasma display panel: Hashimoto teaches a driving/aging waveform for a PDP wherein application of a voltage between the scan and sustain electrodes has an alternating component and applying, an erase dischargesuppressing voltage for suppressing an erase discharge that occurs after the aging discharge to at least one of the scan electrode and the sustain electrode at a predetermined moment in each period when the scan electrode has a voltage level that is higher than that of the sustain electrode and when the sustain electrode has a voltage level that is higher than that of the scan electrode (Figs. 11a-11c; Page 13, Paragraphs [0185]-[0186]). Hashimoto further teaches wherein the erase discharge-suppressing voltage is applied to one of the scan electrode and the sustain electrode (Figs. 11a-11c; Page 13, Paragraphs [0185]-[0186]).

Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kato et al. (US 6376995) in view of Kado et al. (US 6666738) and Hirano et al. (US 2003/0030377).

Regarding claims 4 and 5, Kato teaches a plasma display panel containing a scan electrode, sustain electrode, and a data electrode (Fig. 1, 21 & 22 & 23; Column 7, lines 46-58), and waveforms for driving the plasma display panel (Fig. 51, Column 27, line 59 to Column 28, line 44). Kato fails to teach the method of manufacturing the plasma display panel. However, Kado teaches that during a plasma display panel manufacturing process a PDP must be aged in order to stabilize the luminescence and discharge characteristics of the display (Column 2, lines 16-20). Further, Hirano teaches that PDPs are aged by driving the PDP under practical conditions of use of the PDP (Page 1, Paragraph [0008]). Therefore, it would have been obvious to one of ordinary skill in the art to use the driving waveforms Hashimoto teaches for driving the PDP under practical use to age its PDP in order to stabilize the luminescence and discharge characteristics of the display. Therefore, using the driving waveform of Fig. 51 to age the plasma display panel: Kato teaches a driving/aging waveform for a PDP wherein application of a voltage between the scan and sustain electrodes has an alternating component and applying, an erase discharge-suppressing voltage for suppressing an erase discharge that occurs after the aging discharge to the data electrode at a predetermined moment in a period when the scan electrode has a voltage level that is higher than that of the sustain electrode (Fig. 51; Column 27, line 59 to Column 28, line 44). Kato further teaches wherein the applying of the erase discharge-suppressing voltage further includes applying the erase discharge-suppressing voltage to the data electrode at a predetermined moment in the period when the sustain electrode has a

voltage lavel that is higher than that of the scan electrode (Fig. 51; Column 27, line 59 to Column 28, line 44).

## Allowable Subject Matter

Claims 2 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne M. Hines whose telephone number is (571) 272-2285. The examiner can normally be reached on Monday through Friday from 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

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